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**From:** Brown, Cheryl A. [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=DD6F8A562924439AAF97CA98DDAF1E10-BROWN, CHERYL]  
**Sent:** 10/31/2016 7:02:01 PM  
**To:** Fisher, Bill [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=f26a7eb29ca147f0b604fe36a6200181-Fisher, Bill]  
**Subject:** FW: STICS: Clearance Completion: #ORD-019064: Review of Pteropod and aragonite saturation state data from 2011 and 2013  
**Attachments:** Brown-Pteropod- Report Final.docx

Update! We just had a conference call with Dick Feely, Nina Bednarsek, Jan Newton, Region 10 folks and others. It turns out the discrepancies, I found in the dataset are correct; however, the lat/long provided for the one station within OR state waters, was incorrect, and that one station isn't actually located within OR state waters. NOAA was appreciative for finding errors and will be providing a corrected dataset.

Cheryl

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**From:** Brown, Cheryl A.  
**Sent:** Monday, October 31, 2016 8:34 AM  
**To:** Fisher, Bill <Fisher.William@epa.gov>  
**Subject:** RE: STICS: Clearance Completion: #ORD-019064: Review of Pteropod and aragonite saturation state data from 2011 and 2013

Region 10 was curious of whether data off the coast of Oregon has similar patterns as that published. The relationship was very similar to that found in Bednarsek et al. and the one data point within OR state waters fell upon the relationship.

**Deliberative Process / Ex. 5**

## Deliberative Process / Ex. 5

Deliberative Process / Ex. 5

Here is the report, which is just providing info on the patterns in the dataset.

**Deliberative Process / Ex. 5**

# Deliberative Process / Ex. 5

Here is the report.

Cheryl

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**From:** Fisher, Bill  
**Sent:** Sunday, October 30, 2016 9:56 AM  
**To:** Brown, Cheryl A. <Brown.Cheryl@epa.gov>  
**Subject:** FW: STICS: Clearance Completion: #ORD-019064: Review of Pteropod and aragonite saturation state data from 2011 and 2013

Hi Cheryl,

I was wondering if you found any relationships from this comparison?

Bill

**From:** ORD\_STICS@epa.gov [mailto:ORD\_STICS@epa.gov]

**Sent:** Thursday, October 27, 2016 11:38 AM

**To:** Brown, Cheryl A. <Brown.Cheryl@epa.gov>; Watts, Alice <watts.alice@epa.gov>; Thornhill, Alan <thornhill.alan@epa.gov>; Saterson, Kathryn <Saterson.Kathryn@epa.gov>; Russo, Bill <Russo.Bill@epa.gov>; Fisher, Bill <Fisher.William@epa.gov>

**Subject:** STICS: Clearance Completion: #ORD-019064: Review of Pteropod and aragonite saturation state data from 2011 and 2013

The clearance for this product is complete:

- **Product type, subtype:** Reports and Guidance, Unpublished Report
- **Product title:** Review of Pteropod and aragonite saturation state data from 2011 and 2013
- **Author(s):** Brown, C
- **Initiator:** Cheryl Brown,ord/nheerl/wed/pceb
- **ORD Tracking Number:** Tracking # ORD-019064
  
- **Product Description / Abstract:** NOAA and University of Washington scientists provided data to EPA on the pteropod shell damage and carbonate chemistry parameters in coastal waters off of California, Oregon and Washington. These data were reviewed to see if trends observed in a recent published study (Bednarsek et al., 2014) occur in the coastal shelf off of Oregon, to evaluate whether data points within Oregon State Waters (within 3 miles from the Oregon shoreline) are consistent with published trends, and how these factors vary with distance from the shore.
  
- **Tracking and Planning**
  - Task ID:
  - Task: N/A - Not Applicable
  - Product Title: N/A - Not Applicable
  - Product Description: N/A - Not Applicable
  - Project:
  - Topic:
  - Research Program Area:
  
- **HISA? ISI? High Profile?:** Not Applicable
- **QA form attached in STICS?:** Not Applicable
- **QAPP Reference:** N/A
- **Keywords:**
  - carbonate chemistry
  - pteropods
  - Oregon
  - coastal
  
- **DOI:** <http://dx.doi.org/>

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